Index of Volume 17

All authors are indexed; the subject index cites only the first author and location.

Subject Index

Artificial Intelligence: Fordyce, Kenneth, 2:64-77; 4:34-40; Jackson, Richard H. F., 6:15-28; Simon Herbert A., 4:8-15; *Expert Systems:* Zahedi, Fatemeh, 5:72-81.

Automated Manufacturing: Adler, Paul S., 6:75-85; Bookbinder, James H., 6:41-50; Darrow, William P., 6:86-91; Ettlie, John E, 6:63-74; Jackson, Richard H. F., 6:15-28; Meredith, Jack R., 6:51-62; Monahan, George E., 6:29-40; Singhal, Kalyan, 6:1-4; 6:5-14.

Book Reviews: Sobol, Marion G., 1:135-143; 2:115-123; 3:96-100; 4:115-122; 5:130-136; 6:94-97.

Computers: Say, Jean-Baptiste Leon, 1:126-128; *Microcomputers:* Baker, Gordon L., 4:53-60; Carlisle, David P., 4:16-26; Render, Barry, 5:92-102; *System Design and Operation:* Geisler, Fliezer, 3:18-24; Lederer, Albert L., 4:78-84; Markus, M. Lynne, 3:54-63; Rivard, Suzanne, 3:25-33; Srinivasan, Ananth, 3:64-71.

Decision Analysis: Simon, Herbert A. et al., 5:11-31; *Analytical Hierarchy Process:* Golden, Bruce L., 5:32-42; *Applications:* Bean, James C., 1:48-64; Clarke, John R., 2:27-34; Erkut, Erhan, 5:121-123; Ulvila, Jacob W., 2:1-12; *Criteria:* Say, Jean-Baptiste Leon, 1:126-128; *Systems:* Carlisle, David P., 4:16-26; Monahan, George E., 6:29-40.

Economics: Zahedi, Fatemeh, 5:72-81.

Editorial: Lilien, Gary L., 1:121-123; 2:13-14.

Education Systems: White, Gregory P., 2:97-108; *Operation:* Böcker, Franz, 5:64-71.

Engineering: Ettlie, John E., 6:63-74.

Errata: 1:128; 2:111.

Facilities/Equipment Planning: Breitman, Robert L., 1:94-106; Singhal, Kalyan, 6:5-14.

Finance — Capital Budgets: Mukherjee, Tarun K., 2:78-90; Ulvila, Jacob W., 2:1-12; *Investment Criteria:* Bean, James C., 1:48-64; *Portfolio:* Guerard, John B., Jr., 5:103-113; *Securities:* Sharda, Ramesh, 5:43-50.

Games/Group Decisions — Cooperative: Jarillo, J. Carlos, 5:82-91.

Government — Services, Police: Larson, Richard C., 2:15-20; *Services Postal:* Ulvila, Jacob W., 2:1-12.

Health Care — Treatment: Clarke, John R., 2:27-34.

Industries — Electric/Electronic: Adler, Paul S., 6:75-85; Darrow, William P., 6:86-91; *Machinery:* Meredith, Jack R., 6:51-62; *Mining/Metals:* Baker, Gordon L., 4:53-60; *Petroleum/Natural Gas:* Dougherty, Elmer L., 1:65-93; Klingman, Darwin, 1:4-25; *Textiles/Apparel:* Nebol, Erdal, 4:71-77; *Transportation Equipment:* Bookbinder, James H., 6:41-50.

Information Systems — Management: Lederer, Albert L., 4:78-84; Markus, M. Lynne, 3:54-63; McAulay, Kaye, 3:47-53; Srinivasan, Ananth, 3:64-71.

Instructions to Authors: 1:144-146.

Inventory/Production — Applications: Blumenfeld, Dennis E., 1:26-47; Nebol, Erdal, 4:71-77; Robey, Daniel, 3:72-84; *Parametric Analysis:* Gardner, Everette S., Jr., 4:1-7; *Stochastic Models:* Gardner, Everette S., Jr., 4:1-7.

Military — Cost Effectiveness: Might, Robert J., 5:55-63; *Logistics:* Gardner, Everette S., Jr., 4:1-7; *Requirements Evaluation:* Maddox, David M., 4:108-111.

Organizational Studies — Manpower Planning: Haehling von Lanzenauer, Christoph, 4:27-33.

Philosophy: Maddox, David M., 4:108-111.

Philosophy of Modeling: Reisman, Arnold, 5:114-120.

Planning — Corporate: Baker, Gordon, L., 4:53-60; *Urban:* Kavrakoğlu, İbrahim, 5:1-10.

Production/Scheduling: Monahan, George E., 6:29-40; Singhal, Kalyan, 6:5-14.

Professional — Comments On: Bradbard, D. A., 2:39-48; Lilien, Gary L., 2:13-14; 2:35-38; Machol, Robert E., 1:129-132; Papoulias, Demetrios B., 5:124-126; Reisman, Arnold, 5:114-120; Simon, Herbert A., 4:8-15; 5:11-31; *MS/OR Education:* Böcker, Franz, 5:64-71; Render, Barry, 5:92-102; *MS/OR Implementation:* Batson, Robert G., 3:85-93; Geisler, Eliezer, 3:18-24; Ginzberg, Michael J., 3:1-5; Leonard-Barton, Dorothy, 3:6-17; Rivard, Suzanne, 3:25-33; Robey, Daniel, 3:72-84; Schultz, Randall L., 3:34-46; Zahedi, Fatemeh, 5:72-81; *MS/OR Literature:* Lieberman, Elliot R., 4:85-89; *MS/OR Philosophy:* Tingley, George A., 4:41-52.

Programming: Dougherty, Elmer L., 1:65-93; *Heuristic:* Tingley, George A., 4:41-52; *Integer: Applications:* Barnett, Arnold, 5:51-54; Brown, Gerald G., 1:107-120; *Integer: Branch and Bound:* Yano, Candace Arai, 2:52-63; *Linear:* Haehling von Lanzenauer, Christoph, 4:27-33; Woolsey, Gene, 2:49-51; *Linear: Applications:* Might, Robert J., 5:55-63; Sharda, Ramesh, 5:43-50.

Public Policy — Housing: Kavrakoğlu, İbrahim, 5:1-10.

Queues — Applications: Larson, Richard C., 2:15-20.

Recreation/Sports: Erkut, Erhan, 5:121-123; Golden, Bruce L., 5:32-42.

Reviews and Digests: Hall, John R., Jr., 1:133-134;

Copyright © 1987, The Institute of Management Sciences

0091-2102/87/1706

2:112-114; 3:94-95; 4:112-114; 5:127-129; 6:92-93; Sobol, Marion G., 1:135-143; 2:115-123; 3:96-100; 4:115-122; 5:130-136; 6:94-97.
Risk Analysis: Swoveland, Cary, 4:90-107.
Risk Management: Boodman, David M., 2:91-96.
Statistics: Barnett, Arnold, 2:21-26; *Data Analysis:* Ng, Kevin Y. K.; 4:61-70.
Technology — Automation: Ettlie, John E., 6:63-74.
Transportation — Air: Barnett, Arnold, 2:21-26; 5:51-54; Woolsey, Gene, 2:49-51; *Materials Handling:* Blumenfeld, Dennis E., 1:26-47; Ng, Kevin Y. K., 4:61-70; *Rail:* Swoveland, Cary, 4:90-107; *Route Selection:* Blumenfeld, Dennis E., 1:26-47; Brown, Gerald G., 1:107-120; Yano, Candace Arai, 2:52-63.

Author Index

Adler, Paul S., A plant productivity measure for "high-tech" manufacturing, 6:75-85.
Baker, Gordon L.; Clark, William A., Jr.; Frund, Jonathan J.; and Wendell, Richard E., Production planning and cost analysis on a microcomputer, 4:53-60.
Barnett, Arnold, Misapplications reviews: High road to glory, 5:51-54; Misapplications reviews: Lightning strikes twice, 2:21-26.
Batson, Robert G., The modern role of MS/OR professionals in interdisciplinary teams, 3:85-93.
Bean, James C.; Noon, Charles E.; and Salton, Gary J., Asset divestiture at Homart Development Company, 1:48-64.
Beidleman, Carl R. See *Guerard, John B., Jr.*
Blumenfeld, Dennis E.; Burns, Lawrence D.; Daganzo, Carlos F.; Frick, Michael C.; and Hall, Randolph W., Reducing logistics costs at General Motors, 1:26-47.
Böcker, Franz, Is case teaching more effective than lecture teaching in business administration? An exploratory analysis, 5:64-71.
Boodman, David M., Managing business risk, 2:91-96.
Bookbinder, James H. and Kotwa, Terrence R., Modeling an AGV automobile body-framing system, 6:41-50.
Bradbard, D. A.; Ford, F. N.; Cox, J. F., and Ledbetter, W. N., The management science/operations research industrial-academic interface, 2:39-48.
Breitman, Robert L. and Lucas, John M., PLANETS: A modeling system for business planning, 1:94-106.
Brout, Donald B.; Kolesar, Peter; and Lilien, Gary L., Franz Edelman award for management science achievement, 1:1-3.
Brown, Gerald G.; Ellis, Carol J.; Graves, Glenn W.; and Ronen, David, Real-time, wide area dispatch of Mobil tank trucks, 1:107-120.
Burns, Lawrence D. See *Blumenfeld, Dennis E.*
Carlisle, David P.; Nickerson, Kenneth S.; Probst, Stephen B.; Rudolph, Denise; Sheffi, Yosef; and Powell, Warren B., A turnkey, microcompter-based logistics planning system, 4:16-26.
Chan, Thomas J. See *Yano, Candace Arai.*
Clarke, John R., The application of decision analysis to clinical medicine, 2:27-34.
Clark, William A., Jr. See *Baker, Gordon L.*
Cox, J. F. See *Bradbard, D. A.*
Cutler, Theodore. See *Yano, Candace Arai.*
Daganzo, Carlos F. See *Blumenfeld, Dennis E.*
Dale, Charles. See *Hall, John R., Jr.*
Dare, Dennis. See *Dougherty, Elmer L.*
Darrow, William P., An international comparison of flexible manufacturing systems technology, 6:86-91.
Davis, Joseph G. See *Srinivasan, Ananth.*
Dougherty, Elmer L.; Dare, Dennis; Hutchison, Peter; and Lombardino, Enrico, Optimizing SANTOS's gas production and processing operations in Central Australia using the decomposition method, 1:65-93.
Ellis, Carol J. See *Brown, Gerald G.*
Erkut, Erhan, Note: More on Morrison and Wheat's "Pulling the goalie revisited," 5:121-123.
Ettlie, John E. and Reifeis, Stacy A., Integrating design and manufacturing to deploy advanced manufacturing technology, 6:63-74.
Fine, Charles H. See *Singhal, Kalyan.*
Fordyce, Kenneth; Norden, Peter; and Sullivan, Gerald, Artificial intelligence and the management science practitioner: Links between operations research and expert systems, 4:34-40; Review of expert systems for the management science practitioner, 2:64-77.
Ford, F. N. See *Bradbard, D. A.*
Frick, Michael C. See *Blumenfeld, Dennis E.*
Frund, Jonathan J. See *Baker, Gordon L.*
Gardner, Everette S. Jr., A top-down approach to modeling US Navy inventories, 4:1-7.
Geisler, Eliezer and Rubenstein, Albert H., The successful implementation of application software in new production systems, 3:18-24.
Ginzberg, Michael J. and Schultz, Randall L., The practical side of implementation research, 3:1-5.
Golden, Bruce L. and Wasil, Edward A., Ranking outstanding sports records, 5:32-42.
Graves, Glenn W. See *Brown, Gerald G.*
Guerard, John B., Jr., and Beidleman, Carl R., Composite earnings forecasting efficiency, 5:103-113.
Haehling von Lanzenauer, Christoph; Harbauer, Erwin; Johnston, Brian; and Shuttleworth, David H., RRSP Flood: LP to the Rescue, 4:27-33.
Hall, John R., Jr.; Millen, Roger N.; Sauter, Vicki L., Winer, Russell S.; and Dale, Charles, Applications Reviews, 1:133-134; 2:112-114.
Hall, John R., Jr.; Millen, Roger N.; Winer, Russell S.; Dale, Charles; and Martinich, Joseph S., Applications Reviews, 3:94-95; 4:112-114; 5:127-129; 6:92-93.
Hall, Randolph W. See *Blumenfeld, Dennis E.*
Harbauer, Erwin. See *Haehling von Lanzenauer, Christoph.*
Henderson, Glenn V. See *Mukherjee, Tarun K.*
Hudson, John R. See *Ng, Kevin Y. K.*
Hutchison, Peter See *Dougherty, Elmer L.*
Jackson, Richard H. F. and Jones, Albert W. T., An architecture for decision making in the factory of the future, 6:15-28.

Jarillo, J. Carlos and Ricart, Joan Enric, Sustaining networks, 5:82-91.
Johnston, Brian. See *Haehling von Lanzenauer, Christoph.*
Jones, Albert W. T. See *Jackson, Richard H. F.*
Kavrakoğlu, İbrahim; Kaylan, Ali Riza; Özekici, Süleyman; Özmucur, Süleyman; and Tamer, Güniz, A systems approach for the Turkish housing problem, 5:1-10.
Kaylan, Ali Riza. See *Kavrakoğlu, İbrahim.*
Klingman, Darwin; Phillips, Nancy; Steiger, David; and Young, Warren, The successful deployment of management science throughout Citgo Petroleum Corporation, 1:4-25.
Kolesar, Peter. See *Brout, Donald B.*
Kotwa, Terrence. See *Bookbinder, James H.*
Lam, M. Natalie. See *Ng, Kevin Y. K.*
Larson, Richard C. and Rich, Thomas F., Travel-time analysis of New York City police patrol cars, 2:15-20.
Ledbetter, W. N. See *Bradbard, D. A.*
Lederer, Albert L.; Stubler, William F.; Sethi, Vijay; and Ryan, John C., The implementation of office automation, 4:78-84.
Leonard-Barton, Dorothy, Implementing structured software methodologies: A case of innovation in process technology, 3:6-17.
Lieberman, Elliot R., Where to look for Soviet MS/OR articles: A guide to English language sources and abstracts, 4:85-89.
Lilien, Gary L., Editorial: Reflections, 2:13-14; MS/OR: A mid-life crisis, 2:35-38; The editor's green eyeshade: Verification, etc., 1:121-123; See *Brout, Donald B.*
Lombardino, Enrico. See *Dougherty, Elmer L.*
Lucas, John M. See *Breitman, Robert L.*
Machol, Robert E., The ombudsman: The refereeing process, 1:129-132.
Maddox, David M. and Moore, Stephen C., The "five whats" approach to military MS/OR, 4:108-111.
Markus, M. Lynne, Chargeback as an implementation tactic for office communication systems, 3:54-63.
Martinich, Joseph S. See *Hall, John R., Jr.*
McAulay, Kaye, The changing role of management in information systems development, 3:47-53.
McGettigan, David. See *Yano, Candace Arai.*
Meredith, Jack R., Implementing new manufacturing technologies: Managerial lessons over the FMS life cycle, 6:51-62; See *Singhal, Kalyan.*
Might, Robert J., Decision support for aircraft and munitions procurement, 5:55-63.
Millen, Roger N. See *Hall, John R., Jr.*
Monahan, George E. and Smunt, Timothy L., A multilevel decision support system for the financial justification of automated flexible manufacturing systems, 6:29-40.
Moore, Stephen C. See *Maddox, David M.*
Mukherjee, Tarun K. and Henderson, Glenn V., The capital budgeting process: Theory and practice, 2:78-90.
Murty, Katta G. See *Yano, Candace Arai.*
Nebol, Erdal, Macro production planning: An applied research project, 4:71-77.
Ng, Kevin Y. K.; Lam, M. Natalie; and Hudson, John R., Operating aspects of materiel distribution activity within the Canadian Forces, 4:61-70.
Nickerson, Kenneth S. See *Carlisle, David P.*
Noon, Charles E. See *Bean, James C.*
Norden, Peter. See *Fordyce, Kenneth.*
Özekici, Süleyman. See *Kavrakoğlu, İbrahim.*
Özmucur, Süleyman. See *Kavrakoğlu, İbrahim.*
Papoulias, Demetrios B., A note on "Management science/operations research in Greece" by John C. Papageorgiou, 5:124-126.
Phillips, Nancy. See *Klingman, Darwin.*
Pinto, Jeffrey K. See *Schultz, Randall L.*
Powell, Warren B. See *Carlisle, David P.*
Probst, Stephen B. See *Carlisle, David P.*
Reifeis, Stacy A. See *Ettlie, John E.*
Reisman, Arnold, Some thoughts for model builders in the management and social sciences, 5:114-120.
Render, Barry and Stair, Ralph M., Jr., Microcomputer technology in schools of business, 5:92-102.
Ricart, Joan Enric. See *Jarillo J. Carlos.*
Richter, Lori Kaplan. See *Yano, Candace Arai.*
Rich, Thomas F. See *Larson, Richard C.*
Rivard, Suzanne, Successful implementation of end-user computing, 3:25-33.
Robey, Daniel, Implementation and the organizational impacts of information systems, 3:72-84.
Ronen, David. See *Brown, Gerald G.*
Rubenstein, Albert H. See *Geisler, Eliezer.*
Rudolph, Denise. See *Carlisle, David P.*
Ryan, John C. See *Lederer, Albert L.*
Salton, Gary J. See *Bean, James C.*
Sauter, Vicki L. See *Hall, John R., Jr.*
Say, Jean-Baptiste Leon, Is the quest for objectivity a trivial pursuit?, 1:126-128.
Schultz, Randall L. See *Ginzberg, Michael J.*
Schultz, Randall L.; Slevin, Dennis P.; and Pinto, Jeffrey K., Strategy and tactics in a process model of project implementation, 3:34-46.
Sethi, Vijay. See *Lederer, Albert L.*
Sharda, Ramesh, A simple model to estimate bounds on total market gains and losses for a particular stock, 5:43-50.
Sheffi, Yosef. See *Carlisle, David P.*
Shuttleworth, David H. See *Haehling von Lanzenauer, Christoph.*
Simon, Herbert A., Two heads are better than one: The collaboration between AI and OR, 4:8-15.
Simon, Herbert A. et al., Decision making and problem solving, 5:11-31.
Singhal, Kalyan, Introduction: The design and implementation of automated manufacturing systems, 6:1-4.

Singhal, Kalyan; Fine, Charles H.; Meredith, Jack R.; and Suri, Rajan, Research and models for automated manufacturing, 6:5-14.
Slevin, Dennis P. See *Schultz, Randall L.*
Smunt, Timothy L. See *Monahan, George E.*
Sobol, Marion G., Book Reviews; 1:135-143; 2:115-123; 3:96-100; 4:115-122; 5:130-136; 6:94-97.
Srinivasan, Ananth and Davis, Joseph G., A reassessment of implementation process models, 3:64-71.
Stair, Ralph M., Jr. See *Render, Barry.*
Steiger, David. See *Klingman, Darwin.*
Stubler, William F. See *Lederer, Albert L.*
Sullivan, Gerald. See *Fordyce, Kenneth.*
Suri, Rajan. See *Singhal, Kalyan.*
Swoveland, Cary, Risk analysis of regulatory options for the transport of dangerous commodities by rail, 4:90-107.
Tamer, Güniz. See *Kavrakoğlu, İbrahim.*
Tingley, George A., Can MS/OR sell itself well enough?, 4:41-52.
Ulvila, Jacob W., Postal automation (ZIP + 4) technology: A decision analysis, 2:1-12.
Wasil, Edward A. See *Golden, Bruce L.*
Wendell, Richard E. See *Baker, Gordon L.*
White, Gregory P., A survey of recent management science applications in higher education administration, 2:97-108.
Winer, Russell S. See *Hall, John R., Jr.*
Woolsey, Gene, The fifth column: Scheduling without reservations or ad astra per simplicimus, 2:49-51.
Yano, Candace Arai; Chan, Thomas J.; Richter, Lori Kaplan; Cutler, Theodore; Murty, Katta G.; and McGettigan, David, Vehicle routing at Quality Stores, 2:52-63.
Young, Warren. See *Klingman, Darwin.*
Zahedi, Fatemeh, Artificial intelligence and the management science practitioner: The economics of expert systems and the contribution of MS/OR, 5:72-81.

List of Referees for 1987

Stewart W. Bither, The Pennsylvania State University; Samuel Bodily, University of Virginia; Rex V. Brown, Decision Science Consortium; John R. Clarke, M.D., The Medical College of Pennsylvania; James F. Cox, University of Georgia; Michael Cusumano, Massachusetts Institute of Technology; John S. Davis, Clemson University; Charles H. Fine, Massachusetts Institute of Technology; Winfried Grassmann, University of Saskatchewan; Frank Graves, Incentives Research; Stephen C. Graves, Massachusetts Institute of Technology; Robert Gremley, A. T. Kearney Inc.; Morris Holbrook, Columbia University; Dr. Saman Hong, Coopers & Lybrand; W. J. Infosino, AT&T; Raymond A. Jacobs, Clemson University; M. Tawfik Jelassi, Indiana University; A. Milton Jenkins, Indiana University; John L. King, University of California-Irvine; Ben Kleindorfer, The Pennsylvania State University; R. Lawrence LaForge, Clemson University; Mark R. Lembersky, Weyerhaeuser Company; Arie Y. Lewin, National Science Foundation; Kenneth M. Lusht, The Pennsylvania State University; Paul Marer, Indiana University; Kieran Mathieson, Washington State University; Charles McNichols, Clemson University; Jack R. Meredith, University of Cincinnati; James A. Miles, The Pennsylvania State University; Donald G. Morrison, Columbia University; Gordon F. Newell, University of California; William O'Brien, University of Baltimore; Dennis Organ, Indiana University; Daniel E. Page, Auburn University; Wilson Price, Université Laval; Maung Sein, Indiana University; Jaya Singhal, University of Baltimore; Ananth Srinivasan, Case Western Reserve University; Rajan Suri, University of Wisconsin; Daniel R. Toy, The Pennsylvania State University; N. Venkatraman, Massachusetts Institute of Technology; Alan Wheeler, Clemson University; J. Randall Woolridge, The Pennsylvania State University; and Paul Zipkin, Columbia University.

Books Reviewed

Arrow, Kenneth J. and Raynaud, Hervé, *Social Choice and Multicriterion Decision-Making*, 5:134-135, reviewed by Ira Horowitz.

Banks, Jerry and Carson, John S. II, *Discrete-Event System Simulation*, 1:138-139, reviewed by Anshumali Gangwar.

Banks, Jerry and Heikes, Russel G., *Handbook of Tables and Graphs for the Engineer and Manager*, 1:137-138, reviewed by Howard B. Hamilton, Jr.

Ben-Akiva, Moshe and Lerman, Steven R., *Discrete Choice Analysis*, 1:139-140, reviewed by Ira Horowitz.

Carlsson, C. and Kochetkov, Y., *Theory and Practice of Multiple Criteria Decision Making*, 6:94-95, reviewed by Glen D. Self.

Coelho, J. D. and Tavares, L. V., eds., *OR Models on Microcomputers*, 4:117-118, reviewed by Glen Self.

Cooke, William P., *Quantitative Methods for Management Decisions*, 4:120-121, reviewed by John D. Papageorgiou.

Cottle, R. W.; Kemanson, M. L.; and Korte, B., *Mathematical Programming*, 1:139, reviewed by B. A. McCarl.

DeGeoffroy, J. G. and Wignall, T. K., *Designing Optimal Strategies for Mineral Exploration*, 3:96-97, reviewed by David R. Martinez.

Del Mar, Donald, *Operations and Industrial Management: Designing and Managing for Productivity*, 4:118-119, reviewed by Jack C. Hayya and Robert S. Sullivan.

French, S.; Thomas, L. C.; Hartley R.; and White, D. J., eds., *Multi-Objective Decision Making*, 4:119-120, reviewed by Gary Klein.

Gass, Saul I.; Greenberg, Harvey J.; Hoffman, Karla L.; and Langley, R. Warren, *Impacts of Microcomputers on Operations Research*, 4:117-118, reviewed by Glen Self.

Gross, Donald and Harris, Carl M., *Fundamentals of Queueing Theory*, second edition, 2:121-122, reviewed by Daniel G. Shimshak.

Gutman, Nathan, *How to Keep Production Costs in Line*, 2:119-120, reviewed by A. Monroe Moore.

Humphreys, Kenneth K., ed., *Project and Cost Engineers' Handbook*, 2:119-120, reviewed by A. Monroe Moore.

Kress, George, *Practical Techniques of Business Forecasting*, 4:115-116, reviewed by Jesse E. Raine.

Kumar, P. R. and Pravin, Varaiya, *Stochastic Systems: Estimation, Identification and Adaptive Control*, 5:132-133, reviewed by U. Narayan Bhat.

Lindley, D. V., *Making Decisions (second edition)*, 1:135-137, reviewed by L. Robin Keller.

Osyczka, Andrzej, *Multicriterion Optimization in Engineering with FORTRAN Programs*, 6:94-95, reviewed by Glen D. Self.

Rand, G. K. and Eglese, R. W., eds., *Further Developments in Operational Research*, 2:116-117, reviewed by Kamran M. Dadkhah.

Saaty, Thomas L. and Kearns, Kevin P., *Analytic Planning: The Organization of Systems*, 3:97-98, reviewed by Paul Gray.

Schneiderjans, Marc J., *Linear Goal Programming*, 2:118-119, reviewed by Jan Telgen.

Schultz, Randall L., *Applications of Management Science*, 2:115-116, reviewed by Gene Woolsey.

Szep, J. and Forgo, F., *Introduction to the Theory of Games*, 2:117-118, reviewed by Kalyan Chatterjee.

Tijms, Henk C., *Stochastic Modelling and Analysis: A Computational Approach*, 6:95-96, reviewed by Chelsea C. White.

Tilanus, C. B.; DeGans, O. B.; and Lenstra, J. K., eds., *Quantitative Methods in Management: Case Studies of Successes and Failures*, 3:98-99, reviewed by Gary L. Lilien.

Train, Kenneth, *Qualitative Choice Analysis: Theory Econometrics, and an Application to Automobile Demand*, 2:120-121, reviewed by R. Carter Hill.

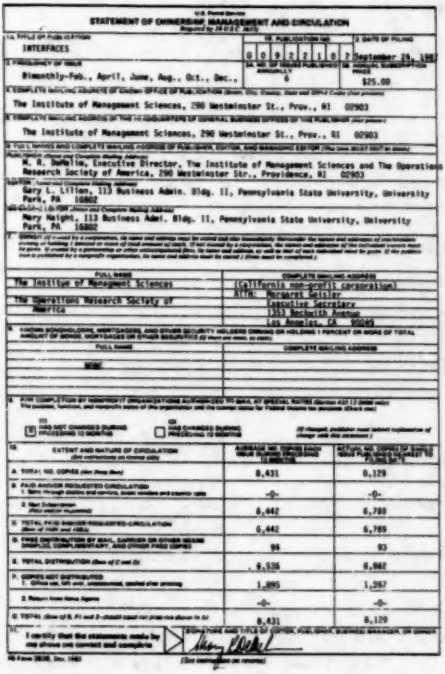
Vazsonyi, Andrew and Spirer, Herbert F., *Quantitative Analysis for Business*, 5:133-134, reviewed by Feraidoon (Fred) Raafat.

White, D. J., *Optimality and Efficiency*, 1:140-141, reviewed by Stanley Zionts.

Whitten, Jeffrey L.; Bentley, Lonnie D.; and Ho, Thomas I. M., *Systems Analysis and Design Methods*, 5:130-131, reviewed by Jessie Raine.

Wilson, Brian, *Systems: Concepts, Methodologies, and Applications*, 5:131-132, reviewed by Robert E. Machol.

Zeleny, Milan, ed., *MCDM: Past Decade and Future Trends*, 1:141-142, reviewed by Glen D. Self.



STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION

1A. TITLE OF PUBLICATION	1B. PUBLICATION NO.
INTERFACES	0 0 9 2 - 1 6 0 2
2. FREQUENCY OF ISSUE	3A. NO. OF ISSUES PUBLISHED ANNUALLY
Bimonthly-Feb., April, June, Aug., Oct., Dec.	6
	3B. ANNUAL SUBSCRIPTION PRICE
	$25.00

4. COMPLETE MAILING ADDRESS OF KNOWN OFFICE OF PUBLICATION (Street, City, County, State and ZIP+4 Code) (Not printers)

The Institute of Management Sciences, 290 Westminster St., Prov., RI 02903

5. COMPLETE MAILING ADDRESS OF THE HEADQUARTERS OF GENERAL BUSINESS OFFICES OF THE PUBLISHER (Not printer)

The Institute of Management Sciences, 290 Westminster St., Prov., RI 02903

6. FULL NAMES AND COMPLETE MAILING ADDRESS OF PUBLISHER, EDITOR, AND MANAGING EDITOR (This item MUST NOT be blank)

PUBLISHER (Name and Complete Mailing Address)

K. C. DeRoche, Executive Director, The Institute of Management Sciences and The Operations Research Society of America, 290 Westminster Str., Providence, RI 02903

EDITOR (Name and Complete Mailing Address)

Gary L. Lilien, 113 Business Admin. Bldg. II, Pennsylvania State University, University Park, PA 16802

MANAGING EDITOR (Name and Complete Mailing Address)

Mary Haight, 113 Business Admn. Bldg. II, Pennsylvania State University, University Park, PA 16802

7. OWNER (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding 1 percent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a partnership or other unincorporated firm, its name and address, as well as that of each individual must be given. If the publication is published by a nonprofit organization, its name and address must be stated.) (Item must be completed.)

FULL NAME	COMPLETE MAILING ADDRESS
The Institute of Management Sciences	(California non-profit corporation) ATTN: Margaret Geisler Executive Secretary 1353 Beckwith Avenue Los Angeles, CA 90046
The Operations Research Society of America	

8. KNOWN BONDHOLDERS, MORTGAGEES, AND OTHER SECURITY HOLDERS OWNING OR HOLDING 1 PERCENT OR MORE OF TOTAL AMOUNT OF BONDS, MORTGAGES OR OTHER SECURITIES (If there are none, so state)

FULL NAME	COMPLETE MAILING ADDRESS
NONE	

9. FOR COMPLETION BY NONPROFIT ORGANIZATIONS AUTHORIZED TO MAIL AT SPECIAL RATES (Section 412.12 only) The purpose, function, and nonprofit status of this organization and the exempt status for Federal income tax purposes: (Check one)

[X] HAS NOT CHANGED DURING PRECEDING 12 MONTHS

[ ] HAS CHANGED DURING PRECEDING 12 MONTHS (If changed, publisher must submit explanation of change with this statement.)

10. EXTENT AND NATURE OF CIRCULATION (See instructions on reverse side)	AVERAGE NO. COPIES EACH ISSUE DURING PRECEDING 12 MONTHS	ACTUAL NO. COPIES OF SINGLE ISSUE PUBLISHED NEAREST TO FILING DATE
A. TOTAL NO. COPIES (Net Press Run)	8,431	8,129
B. PAID AND/OR REQUESTED CIRCULATION 1. Sales Through dealers and carriers, street vendors and counter sales	-0-	-0-
2. Mail Subscription (Paid and/or requested)	6,442	6,789
C. TOTAL PAID AND/OR REQUESTED CIRCULATION (Sum of 10B1 and 10B2)	6,442	6,789
D. FREE DISTRIBUTION BY MAIL, CARRIER OR OTHER MEANS SAMPLES, COMPLIMENTARY, AND OTHER FREE COPIES	94	93
E. TOTAL DISTRIBUTION (Sum of C and D)	6,536	6,882
F. COPIES NOT DISTRIBUTED 1. Office use, left over, unaccounted, spoiled after printing	1,895	1,247
2. Return from News Agents	-0-	-0-
G. TOTAL (Sum of E, F1 and 2--should equal net press run shown in A)	8,431	8,129

11. I certify that the statements made by me above are correct and complete.

SIGNATURE AND TITLE OF EDITOR, PUBLISHER, BUSINESS MANAGER, OR OWNER

(See instructions on reverse)